



ELSEVIER International Journal of Surgery

Volume 44, August 2017, Pages 76-81



Original Research

Outcomes of relocation of basilic vein in brachiobasilic fistulas in chronic renal failure

Author links open overlay panel [Farzad Kakaei](#)^{ab} [Ahad Hasankhani](#)^a [Mir-Salim Seyyed-Sadeghi](#)^c [Peyman Virani](#)^a [Tooraj Asvadi](#)^a [Sina Zarrintan](#)^a

Show more

<https://doi.org/10.1016/j.ijssu.2017.06.037> Get rights and content

Referred to by

Peer review report 2 on “Outcomes of relocation of basilic vein in brachiobasilic fistulas in chronic renal failure”
International Journal of Surgery, Volume 37, Supplement 1, January–December 2017, Pages 386

[PDF \(111KB\)](#)

Faramarz Karimian

Peer review report 1 on “Outcomes of relocation of basilic vein in brachiobasilic fistulas in chronic renal failure”
International Journal of Surgery, Volume 37, Supplement 1, January–December 2017, Pages 391

[PDF \(112KB\)](#)

Highlights

Relocation of basilic vein for brachiobasilic AVF is technically feasible and safe.

- Relocation of basilic vein for brachiobasilic AVF has excellent patency in short-term follow-up.

Relocation of basilic vein for brachiobasilic AVF has acceptable complication rate.

Abstract

Background

In patients without or with injured [cephalic vein](#), using the basilic vein for creating [arteriovenous fistula](#) (AVF) is the best way for [hemodialysis](#). In order to create AVF, the basilic vein should be superficialized and lateralized. This study sought to examine outcome of relocation of basilic vein in brachioasilic [fistulas](#) in patients with [chronic renal failure](#) (CRF).

Methods

We evaluated the outcome of creation of brachioasilic fistula with transposition of basilic vein in 27 patients (14 males and 13 females with mean age of 60.03 ± 8.04 years) with CRF. The success rate and complications were recorded during the follow-up period. The fistula was regarded efficient if [cannulation](#) was feasible conveniently and a minimum flow rate of 250 ml/min for 4 h at least for 3 consecutive hemodialysis sessions through both lines was documented 30 days postoperatively.

Results

The mean time gap between previous AVF creation or try and the relocation of basilic vein was 3.55 months. Thirty days postoperatively, 85.2% of the created AVFs were efficiently working. There were postoperative complications in 40.7% of patients including venous [hypertension](#) (14.8%), bleeding (7.4%), [hematoma](#) (7.4%) and distal [paresthesia](#) (11.1%).

Conclusions

Brachioasilic AVF fistula provides a suitable option for [vascular access](#) in cases with failed previous AVF. Relocation of basilic vein for brachioasilic AVF is technically feasible, safe and with excellent patency in short-term and complication rates are acceptable

.Keywords: Brachioasilic, fistula, hemodialysis, Patency, Complication